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REMARKS

Applicants thank the Examiner for the courtesy of a telephone interview on December 1, 2004 during which Examiners Yahveh Comas and Karl Tamai, Applicants' representative William Guerin, and Applicant Franklin Jones discussed the rejections under 35 U.S.C. 103(a) for independent claims 5, 12 and 13 and dependent claim 8 as set forth in the Office Action mailed November 4, 2004. In a subsequent telephone interview on December 8, 2004, Examiner Yahveh Comas and Applicants' representative William Guerin discussed new claim 14 which includes the elements and limitations of claims 5 and 8, and which also recites that the layers of coils are in substantial contact. Examiner Comas indicated that new claim 14 overcomes the rejection based on the prior art cited in the Office Action.

Claims 4-10, 12 and 13 were presented for examination. The Office Action rejects claims 4-10, 12 and 13. This paper cancels claims 4-6, 8, 12 and 13, amends claims 7, 9 and 10, and adds new claims 14 and 15. Claims 7, 9, 10, 14 and 15 are pending in the application after entry of the amendments made herein.

Rejection of Claims 5-9 under 35 U.S.C. § 103

The Office Action rejects claims 5, 7 and 12 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,744,896 (hereinafter "Kessinger") in view of U.S. Patent No. 4,677,332 (hereinafter "Heyraud"). The Office Action rejects claim 6 under 35 U.S.C. 103(a) as being unpatentable over Kessinger in view of Heyraud and in further view of U.S. Patent No. 4,551,645 (hereinafter "Takahashi"). Claims 4, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kessinger in view of Heyraud and in further view of U.S. Patent No. 5,493,157 (hereinafter "Nakamura"). Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kessinger in view of Heyraud, and in further view of Nakamura and Takahashi.

Applicants have canceled claims 4-6, 8, 12 and 13 therefore the rejections under 35 U.S.C. 103(a) with respect to these claims are moot. New claim 14 includes all the limitations

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of independent claim 5 and dependent claim 8, and includes the terms "inner" and "outer" to more clearly differentiate between the coils disposed at different radial distances from the cylindrical axis. New claim 14 also recites that the longitudinal sections of the outer coils be "disposed substantially in contact with respective longitudinal sections" of the inner coils. Claims 7, 9 and 10 have been amended to depend from new claim 14 and for proper antecedent basis.

The cited references taken alone or in combination do not teach or suggest inner and outer coils that are substantially in contact with each other. Although Nakamura shows coils disposed at different radii from an axis, the coils require an intervening flexible printed circuit for support and, therefore, are not substantially in contact with each other. Thus Applicants submit that new claim 14 is patentably distinguishable over the cited references as they fail to disclose or suggest every element and limitation of Applicants' invention in accordance with claim 14. Claims 7, 9, 10 and 15 depend directly from patentable independent claim 14, and include all of its limitations, and therefore are also patentably distinguishable over the cited references for at least those reasons provided with respect to claim 14. Therefore, Applicants respectfully request that the rejection against claims 7, 9, 10 and 15 be withdrawn.

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CONCLUSION

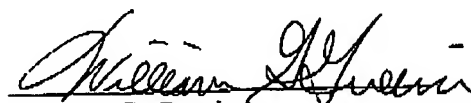
In view of the arguments made herein, Applicants submit that the application is in condition for allowance and request early favorable action by the Examiner.

If the Examiner believes that a telephone conversation with the Applicants' representative would expedite allowance of this application, the Examiner is cordially invited to call the undersigned at (508) 303-2003.

Respectfully submitted,

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